NEZ Infratech Private Limited
Civil Engineering Consultants
CIDC Regd No 220929
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No.1, 2nd Floor, P. Veerappa Arcade, Ittamadu Main Road, Arehalli, Subramanyapura Post, Bengaluru - 560061
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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Fine aggregates - M sand
Technical References	IS: 383-2016

SEIVE ANALYSIS OF FINE AGGREGATE

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Source of Material : M-Sand

Date of Testing : 9/2/2022

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-2016 Percentage Passing				Remarks
		Zone-I	Zone-II	Zone-III	Zone-IV	
10	**100**	100	100	100	100	The Sample Conforms to Grading Zone-II
4.75	**96.2**	90-100	90-100	90-100	95-100	
2.36	**80.8**	60-95	75-100	85-100	95-100	
1.18	**63.5**	30-70	55-90	75-100	90-100	
600.mic	**45.2**	15-34	35-59	60-79	80-100	
300.mic	**24.7**	5-20	8-30	12-40	15-50	
150.mic	**11.3**	0-20	0-20	0-20	0-15	

Remarks: the fine aggregate conforms to specification of zone II.

Prepared by

Checked by

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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Fine aggregates - M sand
Technical References	IS: 383-2016

SPECIFIC GRAVITY OF FINE AGGREGATE

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Source of Material : M-Sand

Date of Testing : 9/2/2022

BY PYCNOMETER METHOD

Description	1	2	3
Pycnometer Bottle Number	A	B	C
Weight of Pycnometer(W1) (g)	446	446	446
Weight of Pycnometer + Sample (W2) (g)	980	975	973
Weight of bottle + Water + Sample (W3)(g)	1535	1530	1528
Weight of Pycnometer + Water (W4)(g)	1200	1200	1200
Specific Gravity	2.68	2.65	2.66
Water Absorption	0.81	0.60	0.78
Average Specific Gravity	**2.66**		
Average Water Absorption (%)	**0.73**		

Remarks: The obtained specific gravity of sand conforms to the permissible limits.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Coarse aggregates
Technical References	IS: 2386 Part -1

SEIVE ANALYSIS OF COARSE AGGREGATE

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Source of Material : Coarse Aggregate

Date of Testing : 14/2/2022 Total Wt. of Sample : 3000gm

IS Sieve Size, mm	Wt. Retained (g)	% of Wt. Retained	% Cumulative Wt. Retained	% Passing	Specified % of passing
25	0	0	0	**100**	100
20	75	2.5	6.9	**93.1**	85-100
10	2813	93.76	96.79	**3.21**	0-20
4.75	92	3.06	99.58	**0.42**	0-5
Pan	20	0.68	100	**0**	

Remarks: The obtained gradation conforms to the specified range as per IS 2386 Part-1

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಸ್ತೆ ಮೂಲಭೂತ ಸೌಲಭ್ಯಗಳು, (ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು - 62

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Coarse aggregates
Technical References	IS: 2386 Part -1

FLAKINESS INDEX AND ELONGATION INDEX (IS:2386 PART-I)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Type of Material : Coarse Aggregate

Date of Testing : 14/2/2022 Total Wt. of Sample : 6000gm

IS Sieve Size, mm		Total Weight of Aggregate taken (g)	Weight of aggregate Retained on sieve(g)	Wt. of flaky Aggregates (g)	Wt. of Retained Aggregates on flaky(g)	Wt. of Elongated Aggregates (g)
Passing	Retained					
25	20	6000	3098	482	2674	186
20	16		1850	231	1619	168
16	12.5		585	118	472	84
12.5	10		329	92	238	74
10	6.3		110	36	75	24
Total (gm)			5972	959	5078	536

Flakiness Index = 959/59 72= **0.17** Elongation Index = 536/5078 = **0.107**

Combined Flakiness and Elongation Indices = (0.17+0.107)*100 = **27.7 %**

Remarks: The obtained combined flakiness and elongation index is less than 35% as specified in MORT&H.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Coarse aggregates
Technical References	IS: 2386 Part -IV

AGGREGATE IMPACT VALUE
(IS:2386 PART-IV)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road,
Bengaluru 560061

Type of Material : Coarse Aggregate Date of Testing: 14/2/2022

Total Wt. of Sample : 6000gm

Description	Symbol	Unit	Determinations		
			1	2	3
Weight of aggregate passing through IS Sieve 12.5mm & retained on 10mm	W1	g	335	336	332
Weight of fraction retained on 2.36 mm IS Sieve	W2	g	260.6	260.4	257.6
Weight of fraction passing through 2.36 mm IS Sieve	W3=W1-W2	g	74.37	75.6	74.4
Aggregate Impact Value	(W3/W1)X100	%	22.2	22.5	22.4
Average Aggregate Impact Value		%	22.3		

Remarks: the aggregate impact value obtained is lesser than 30% as specified in MORT&H.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Coarse aggregates
Technical References	IS: 2386, IS: 383 - 2016 & MORT&H Specification Vth Revision - 2013.

SOUNDNESS TEST OF COARSE AGGREGATES

Sl. No.	Test Conducted	Test Result	Test Confirms to IS 2386(Part I to IV) - 1963(R.A on 2007) & Requirements as per IS: 383-2016 & M.o.R.T.H Specification, Vth Revision - 2013.
1	i) When tested with Sodium Sulphate, %	0.95	Not more than 12%
	ii) When tested with Magnesium Sulphate, %	1.15	Not more than 18%

Remarks: The obtained soundness test result is within the permissible limits as per IS-2386 and IS 383-2016.

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TEST REPORT ON KERB STONES

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Kerb stones
Technical References	IS:516(Part 4)-RA : 2018

KERB STONE (CORE) TEST REPORT (IS:516(Part 4)-RA : 2018)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20

No. of sample tested : 4

Date of testing : 18/04/2022

Sl. No.	Dia. of the core D (mm)	Height of the core H (mm)	Core wt. (kg)	Density of core (kg/m³)	H/D	Correction factor (Based on H/D)	Failure Load (kN)	Core strength (N/mm²)	Correction factor for the Dia. (strength of the core x 1.06)	Corrected cylinder compressive strength (N/ mm²)	Equivalent cube compressive strength (N/ mm²)
1	68.0	102.0	0.821	2216.33	1.50	0.945	70.00	19.27	20.43	19.31	24.13
2	68.0	103.0	0.823	2200.16	1.51	0.947	73.10	20.13	21.34	20.20	25.25
3	68.0	100.0	0.813	2238.63	1.47	0.942	73.20	20.16	21.37	20.12	25.15
4	68.0	105.0	0.839	2200.21	1.54	0.950	64.50	17.76	18.83	17.88	22.35

Remarks: The kerb stone's core tested has attained the required compressive strength.

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TEST REPORT ON SOLID CONCRETE BLOCKS

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Solid Concrete Blocks
Technical References	IS: 2185(Part-1):2005

CONCRETE BLOCK TEST REPORT
IS: 2185(Part-1):2005

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of concrete blocks: C(5.0)

Dimensions: 400*150*200mm

No. of sample tested : 4

Date of testing : 9/03/2022

Sample No.	Length in mm	Width in mm	Area in mm^2	Load in kN	Compressive strength in N/mm^2	Average Compressive strength in N/mm^2
1	400	150	60000	246	4.1	4.135
2	400	150	60000	249	4.15	
3	400	150	60000	247.8	4.13	
4	400	150	60000	249.6	4.16	

Remarks: The solid concrete blocks has attained the minimum compressive strength of 4 N/mm^2 As per IS: 2185(Part-1):2005.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for drain
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES
(IS:516-2006)

Section/ Location of Lab	:	NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061	
Grade of Concrete	:	PCC 1:2:4	Date of Casting: 11/03/2022
Water-Cement Ratio	:	0.45	Date of Testing: 17/03/2022
Description of Cement	:	OPC - ACC Cement, 53- Grade	
Size of Concrete Cube	:	(150 x 150 x 150) mm	

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.06	22500	236.25	10.5	10.7
2	07	8.09	22500	243	10.8	
3	07	8.00	22500	245.25	10.9	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days and passed the test.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for compound wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : PCC 1:2:4 Date of Casting: 3/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 9/03/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.05	22500	245.25	10.9	**10.9**
2	07	7.9	22500	247.5	11.0	
3	07	8.10	22500	243	10.8	

Remarks: Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for culverts
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : PCC 1:2:4 Date of Casting: 9/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 15/03/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.11	22500	234	10.4	10.6
2	07	8.05	22500	238.5	10.6	
3	07	8.10	22500	240.75	10.7	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for compound wall plinth
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 15/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 21/03/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	7.9	22500	339.75	15.1	14.97
2	07	8.05	22500	333	14.8	
3	07	8.10	22500	337.5	15.0	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for column
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES
(IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road,
Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 19/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 25/03/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	7.99	22500	335.25	14.9	15.2
2	07	8.0	22500	344.25	15.3	
3	07	8.12	22500	346.5	15.4	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

Prepared by Checked by Approved by

Nez Infratech Pvt. Ltd.

Regd Office : No.21/53, Sathi Nilaya, 3rd Main, Near Akshara International School, AGS Layout, Arehalli, Bengaluru-560061
Approved Service Provider by Construction Industry development Council (CIDC). Established by Planning Commission, Govt of India.

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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for footing
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 8/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 14/03/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.1	22500	326.25	14.5	14.8
2	07	8.05	22500	339.75	15.1	
3	07	8.10	22500	330.75	14.7	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

Prepared by Checked by Approved by

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for drain wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 12/04/2022

Water-Cement Ratio : 0.45 Date of Testing: 18/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.12	22500	337.5	15	15.1
2	07	8.06	22500	344.25	15.3	
3	07	8.00	22500	333	14.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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ದಾಸರಹಳ್ಳಿ ವಲಯ-02

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for culvert wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 15/04/2022

Water-Cement Ratio : 0.45 Date of Testing: 21/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	7.99	22500	348.75	15.5	15.3
2	07	8.05	22500	344.25	15.3	
3	07	8.12	22500	339.75	15.1	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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NEZ Infratech Pvt. Ltd.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for culvert deck slab
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES
(IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 19/04/2022

Water-Cement Ratio : 0.45 Date of Testing: 25/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	07	8.1	22500	342	15.2	15.2
2	07	8.0	22500	339.75	15.1	
3	07	8.1	22500	344.25	15.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 07 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for drain
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES
(IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : PCC 1:2:4 Date of Casting: 11/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 8/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	366.75	16.3	16.3
2	28	7.96	22500	364.5	16.2	
3	28	8.00	22500	366.75	16.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for compound wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : PCC 1:2:4 Date of Casting: 5/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 2/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	357.75	15.9	15.9
2	28	7.96	22500	360	16.0	
3	28	8.00	22500	355.5	15.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

Prepared by Checked by Approved by

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for culvert
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : PCC 1:2:4 Date of Casting: 9/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 7/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	369	16.4	16.26
2	28	7.96	22500	362.25	16.1	
3	28	8.00	22500	366.75	16.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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NEZ Infratech Pvt. Ltd.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for compound wall plinth
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED
No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 15/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 12/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	470.25	20.9	21.2
2	28	7.96	22500	479.25	21.3	
3	28	8.00	22500	474.75	21.1	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for footing
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 8/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 5/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	481.5	21.4	21.4
2	28	7.96	22500	486	21.6	
3	28	8.00	22500	479.25	21.3	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for column
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 19/03/2022

Water-Cement Ratio : 0.45 Date of Testing: 16/04/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	465.75	20.7	20.9
2	28	7.96	22500	474.75	21.1	
3	28	8.00	22500	468	20.8	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳು, (ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು - 02

NEZ Infratech Private Limited
Civil Engineering Consultants
CIDC Regd No 220929
CIDC
No.1, 2nd Floor, P. Veerappa Arcade, Ittamadu Main Road, Arehalli, Subramanyapura Post, Bengaluru - 560061
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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for drain wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 12/04/2022

Water-Cement Ratio : 0.45 Date of Testing: 9/05/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	483.75	21.5	21.6
2	28	7.96	22500	490.5	21.8	
3	28	8.00	22500	488.25	21.7	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

Prepared by Checked by Approved by

NEZ Infratech Pvt. Ltd.

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ರಸ್ತೆ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳು, (ದಾಸರಹಳ್ಳಿ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Regd Office : No 91/35, Siddaiah Reddy Main, Near Akshara International School, AGS Layout, Arehalli, Bengaluru-560061
Approved Service Provider by Construction Industry development Council (CIDC). Established by Planning Commission, Govt of India.

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CIN:U70100KA2015PTC084544, PAN:AAFCN1036R, GSTIN 29AAFCN1036R1ZZ

Client	BRUHATH BENGALURU MAHANAGARA PALIKE (BBMP) Road Infrastructure – Dasarahalli Division
Agency	M/s. SLV Constructions, #78, 14th Main Road, 1st cross, 2nd stage, Bharath Nagar, Near Balaji Temple, Bengaluru-560091
Name of the work	Widening & Comprehensive Development of Singapura Garden Road from Abbigere Road (Precision Components Factory) to Shrinikethan Layout (BDA Layout).
Sample Identification	Concrete cubes for culvert wall
Technical References	IS: 516-2006

COMPRESSIVE STRENGTH OF CONCRETE CUBES (IS:516-2006)

Section/ Location of Lab : NEZ INFRATECH PRIVATE LIMITED No.1, 2nd Floor, P.Veerappa Arcade, Ittamadu Main Road, Bengaluru 560061

Grade of Concrete : M20 Date of Casting: 15/04/2022

Water-Cement Ratio : 0.45 Date of Testing: 12/05/2022

Description of Cement : OPC - ACC Cement, 53- Grade

Size of Concrete Cube : (150 x 150 x 150) mm

Sl. No.	Age in Days	Weight (Kg)	Area of cube (mm^2)	Load at Failure (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	28	8.10	22500	488.25	21.7	21.6
2	28	7.96	22500	483.75	21.5	
3	28	8.00	22500	486	21.6	

Remarks: The Concrete Cubes achieved the required Compressive Strength for 28 days.

Prepared by Checked by Approved by

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗಳ್ಳಿ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳು, (ದಾಸರಹಳ್ಳಿ ವಲಯ)
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